



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : A61M 5/142		(11) International Publication Number: WO 95/28190
		A1
		(43) International Publication Date: 26 October 1995 (26.10.95)
<p>(21) International Application Number: PCT/US95/04527</p> <p>(22) International Filing Date: 12 April 1995 (12.04.95)</p> <p>(30) Priority Data: 08/228,508 15 April 1994 (15.04.94) US</p> <p>(71) Applicant: SIMS DELTEC, INC. [US/US]; 1265 Grey Fox Road, St. Paul, MN 55112 (US).</p> <p>(72) Inventors: OLSON, James, M.; 10380 - 51st Place North, Plymouth, MN 55442 (US). JOHNSON, Jay, Gregory; 6560 Fogelman Road, Maple Plain, MN 55359 (US). HU, Jia; 524 - 17th Avenue N.W., New Brighton, MN 55112 (US).</p> <p>(74) Agent: BRUESS, Steven, C.; Merchant, Gould, Smith, Edell, Welter & Schmidt, 3100 Norwest Center, 90 South 7th Street, Minneapolis, MN 55402 (US).</p>		
<p>(81) Designated States: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT, UA, UG, UZ, VN, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG), ARIPO patent (KE, MW, SD, SZ, UG).</p> <p>Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i></p>		
<p>(54) Title: SYSTEMS AND METHODS FOR CASSETTE IDENTIFICATION FOR DRUG PUMPS</p> <p>(57) Abstract</p> <p>The present invention concerns a pump provided with a control module and an attachable fluid reservoir cassette. The control module includes a pumping mechanism for pumping fluid from the fluid reservoir to the patient. The cassette is provided with appropriate indicia to identify differences between a plurality of cassettes. The control module further includes cassette indicia identification structure for identifying indicia on the cassette. One type of cassette identification system includes a projection extending from the cassette and structure associated with the control module which engages the projection. Another type of cassette identification system includes a light reflecting system which utilizes light from the control module and reflected off the cassette. Still other types of cassette identification systems utilize other non-contact switches or sensors to sense indicia on the cassette to identify the cassette from a plurality of cassettes.</p>		